



George Beveridge

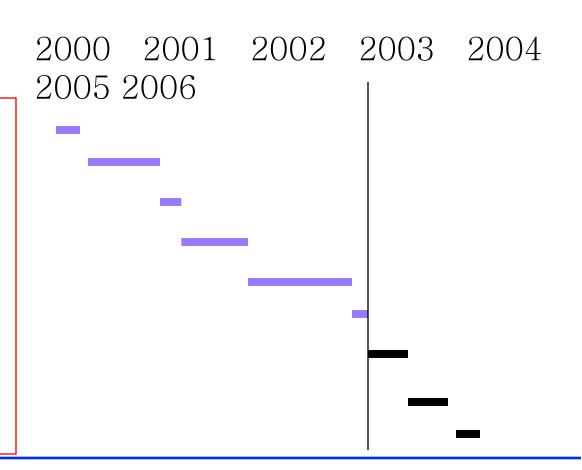
Director, Europe BNFL Environmental Services

27 June 2003

WAGR Decommissioning Programme



Operational
Waste
Hot Box
Loop Tubes
Neutron Shield
Graphite Core
Thermal Shield
Lower
Structures





Contract End date early 2005

Recent Successes

Preliminary Operations completed to programme

Operational Waste completed to programme

Hot Box 5 months late

Loop Tubes completed 20 days early

Neutron Shield completed 2 mths early

Graphite Core completed 8 mths early

Thermal Shield completed 30 days early



• What's next?



WAGR Decommissioning

Campaign 7a Lower Structures Dismantling



Lower Structures Layout

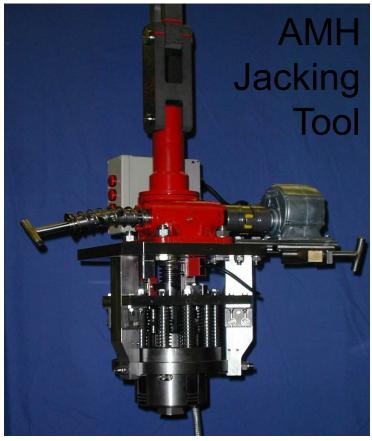
Neutron Baffles Kerb Rail Lower Core Bearing Support Races **Plates**



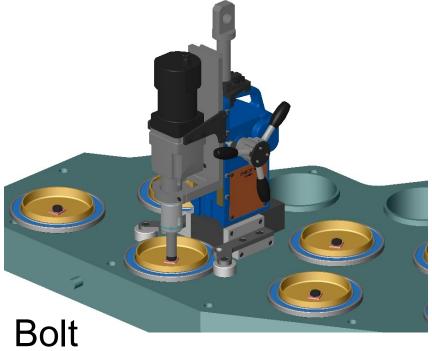
Lower Structures Tooling

Lower
Bearing
Race
Puller



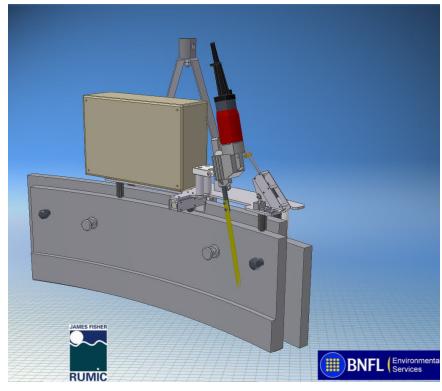


Lower Structures Tooling



Bolt Machining Tool

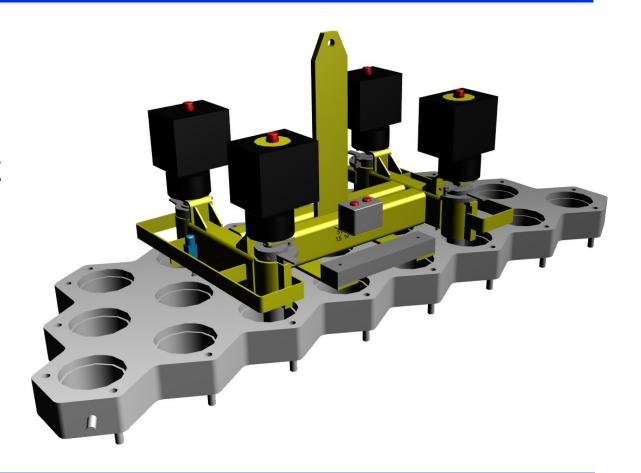
Reciprocating Saw





Lower Structures

Twist Lock
Grab with Type
B Core Support
Plate



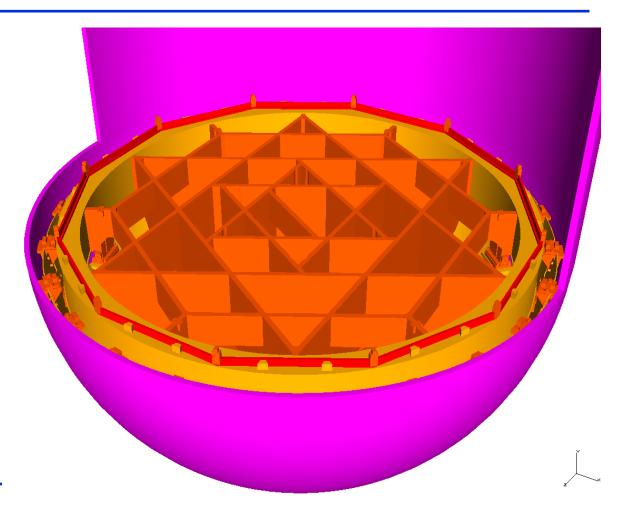


Waste Summary

- 7 Boxes (5 High and 2 Normal Density)
- 1 Core Support Bearing Race Basket
- 1 Flux Scanning Tube Bin (Campaign 7)
- 3 Thermal Shield Brick Baskets (Campaign 7)
- 5 Standard Half Height Baskets
- 4 Core Support Plate Waste Baskets
- Separators for Core Support Plates

Lower Structures

Campaign 7a end point with Diagrid Lattice and Ring Girder exposed





WAGR Decommissioning

Campaign 8 Lower Structures Dismantling Stage 2



Lower Structures Stage 2 Diagrid Lattice Dismantling

- Diagrid Lattice will be size reduced into 43 sections using Oxy-Propane Cutting Torch
- Torch deployed using electrically actuated Torch Tracking System
- Cut sections removed using Diagrid Lattice Handling Grab
- Cut sections loaded into 2/5HWBs or 3/5HWBs in Sentencing Cell or special furniture located on Diagrid, which will be subsequently loaded into a WAGR Waste Box



Lower Structures Stage 2 Ring Girder Dismantling

- Diagrid Ring Girder will be size reduced into 12 sections using Oxy-Propane Cutting Torch
- Torch also used to cut 2 grout flow slots into each section prior to removal
- Torch deployed using electrically actuated Torch Tracking System
- Cut sections removed using Diagrid Ring Girder Handling Grab
- Cut sections loaded directly into WAGR Waste Box
- Final 2 sections relocated to Ring Girder Supports for final cut



Waste Summary

•	Arrestor Mechanism Housing Furniture	1
•	Diagrid Ring Girder Box Furniture	2
•	Triangular Diagrid Section Stand	6
•	Half Height Wastebasket	1
•	2/5 Height Wastebasket	3
•	3/5 Height Wastebasket	4
•	Normal Density Waste Boxes	8
•_	High Density Boxes	1



WAGR Decommissioning

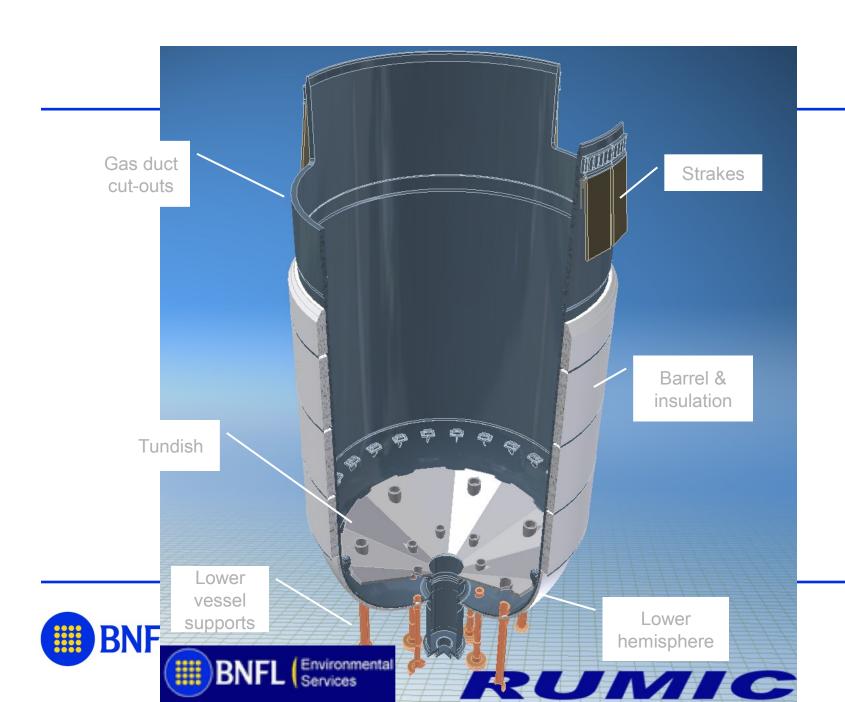
Campaign 9 Pressure Vessel and Insulation Dismantling

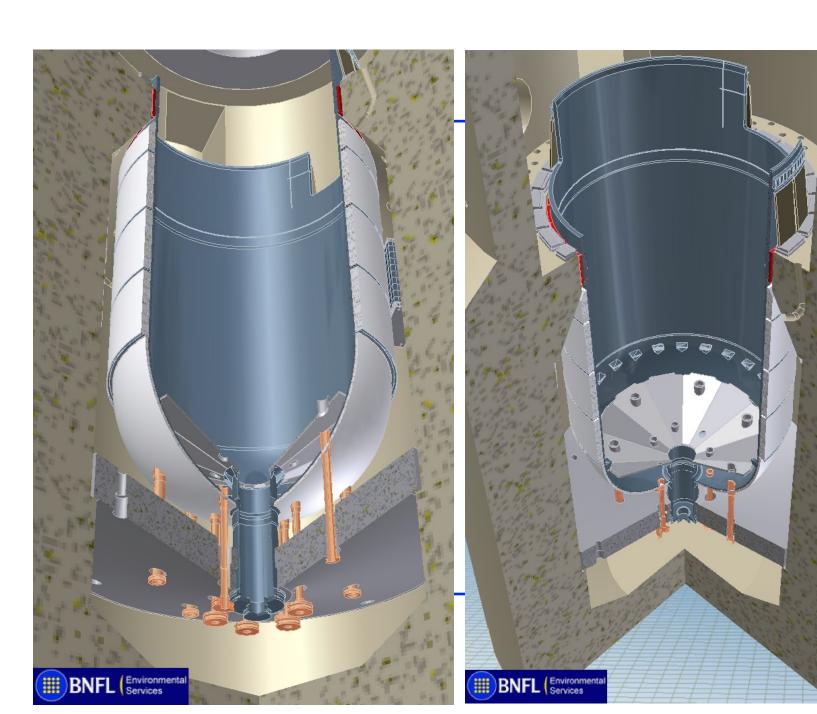


Methodology overview...

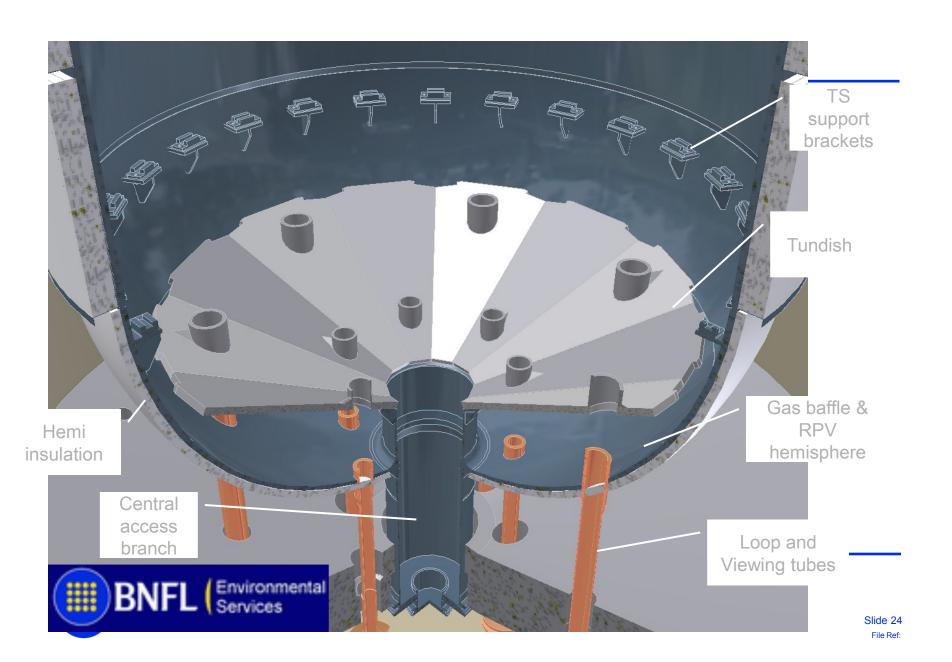
- Corbel clearance & Strake removal (manual)
- Above corbel RPV removal
- Main RPV 'barrel' section removal
- Tundish debris clearance
- Lower hemisphere and lower vessel support structures clearance.



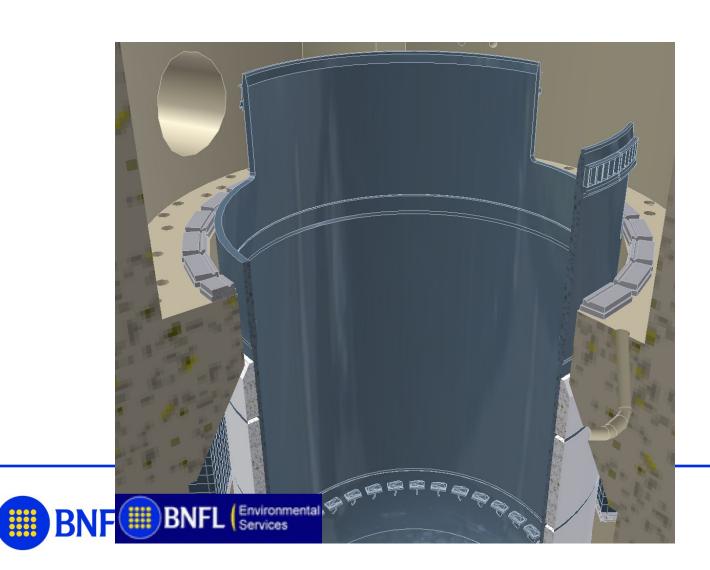




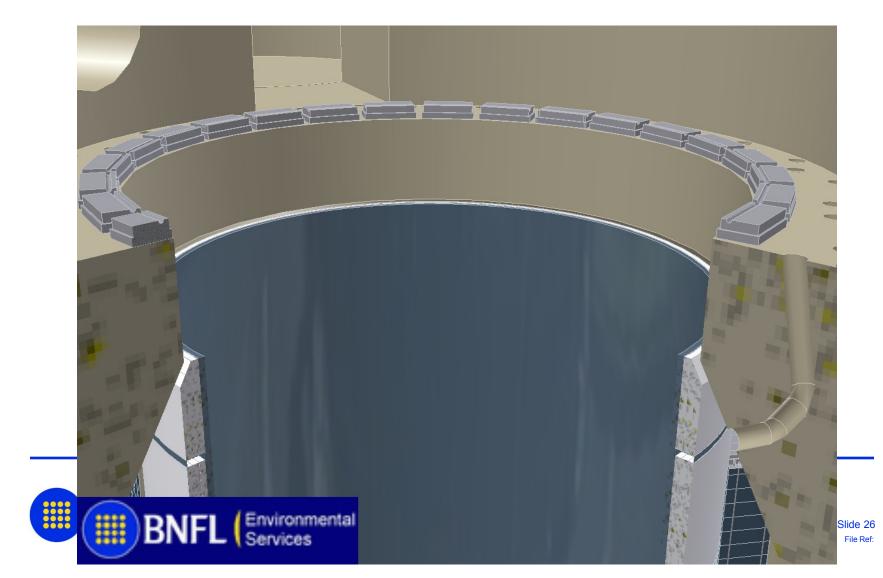
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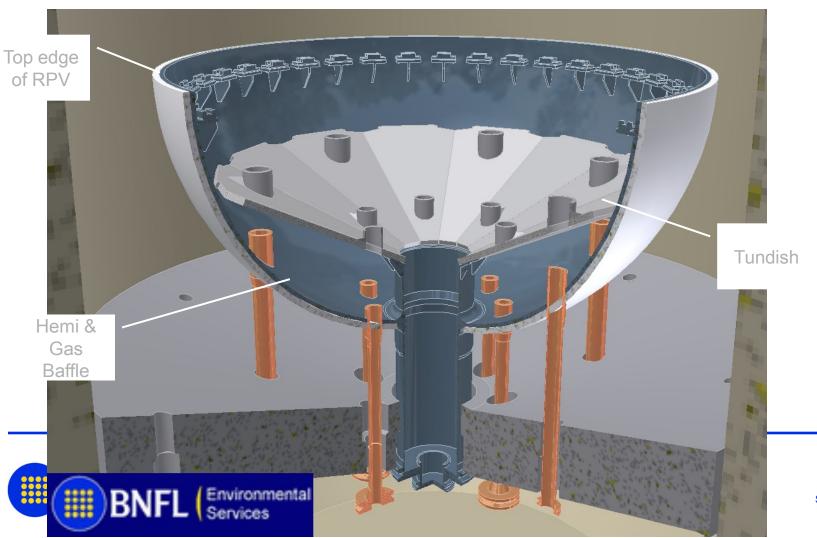
Stage 1 – End state



Stage 2 – End state

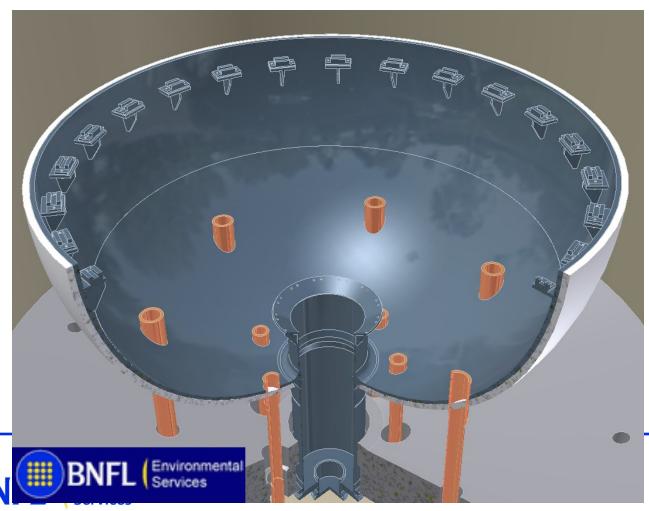


Stage 3 – End state

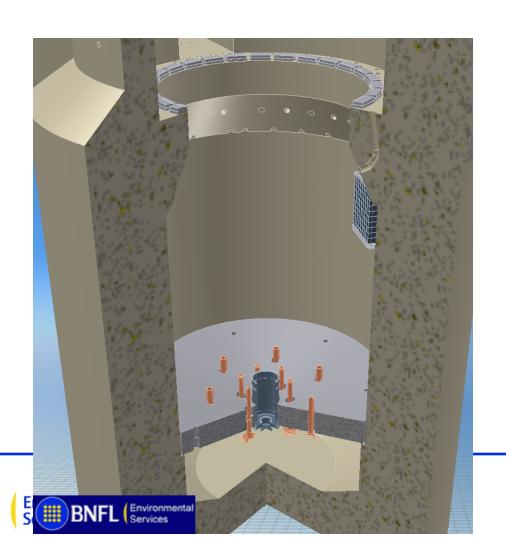


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Stage 5 – Tundish removed



Stage 5 – Lower hemi





WAGR Decommissioning

Campaign 10 Outer Vault Membrane and Thermal Columns Dismantling



Methodology overview...

- Options study currently being undertaken
- Assessment of dose will determine dismantling strategy - manual/remote
- Current assessment suggests reachability concerns with current equipment
- Alternative access to vault being considered



Is WAGR a Success?

- Safety Without being safe the project cannot be a success. Seven years without lost time accident
- Dose Uptake Minimised, in 2002 less than 1.05mSv to any single individual - 23.3mSv for whole project this is incorrect
- Technical Fit-for-purpose solutions to arising problems
- Delivery Project is currently 77% complete, ahead of programme and aiming to finish during 2004
- Commercial Current forecast is that project will be completed under budget



Safety Performance

- Control of what we do
- Taking ownership of a problem
- Do not accept unacceptable behaviour
- Be visible Site safety tours
- Behavioural Safety
- Send people home safe and sound
- 7yrs without lost time accident



Customer Relations

- Successful completion of remaining methodologies
- Contract extension to cover additional work
- Implement customer satisfaction improvement plan
- Meet customers needs
- Involve the customer in all aspects of the project

UK Project Resource Strategy

- Deliver right people at right time to support project deliverables
- Develop our people and our capability
- Close liaison with Pile 1 resource co-ordinator
- WAGR agency personnel to staff recruitment phase 2
- Attitude survey results



A highlighted box that offers a final summing up to the panel is often a useful tool

